

MECHANICAL SYSTEMS

The mechanical systems for the project revolve around a central mechanical tower and a 8'0" mechanical/electrical/plumbing/service plenum that occupies the first level. All the building functions are located on the second level. Each building function, for example, retail, gallery, theater and restaurant are separate spaces and have their own services via the plenum. Ventilation is provided via the plenum. The plenum is located at the southwest corner of the project and is designed to capture and general urban stink. The ventilation is provided by the top of the mechanical tower. The ventilation by way of the mechanical tower is shown in the 3d layout of the building.

COOLING CAPACITY: 100ft2/ton
Total space for boiler room: 680ft2
Total space for cooling towers: 100ft2
Size of cooling tower: 39'-3" x 7'-0"

Cooling air volume: 25,000 CFM
Area of main supply or return duct: 100ft2
Area of branch supply or return duct: 800ft2
area of fan rooms: 800ft2
area of fresh air louvers: 300ft2
area of exhaust air louvers: 250ft2

Project Name:
3500 STUDIO PROJECT

City, Country
Houston, Texas USA

Latitude/Longitude/Elevation
29°45'46"N 95°22'59"W
13ft

8'-0" MECHANICAL
AND SERVICES
PLENUM

MECHANICAL TOWER
CHILLER
BOILER
COOLING TOWER

FRESH AIR INTAKE

8'-0" MECHANICAL
AND SERVICE PLENUM

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